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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/594,080	09/25/2006	Paul Gregor	GREGOR7	8814
	7590 02/04/200 D NEIMARK, P.L.L.C	EXAMINER		
624 NINTH STREET, NW			LE, EMILY M	
SUITE 300 WASHINGTON, DC 20001-5303			ART UNIT	PAPER NUMBER
			1648	
			MAIL DATE	DELIVERY MODE
			02/04/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/594,080	GREGOR ET AL.			
Office Action Summary	Examiner	Art Unit			
	EMILY M. LE	1648			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING DESTRICTION OF THE MAILING DESTRUCTION OF THE MAILING	DATE OF THIS COMMUNICATIO 136(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) ☐ Responsive to communication(s) filed on 25 S 2a) ☐ This action is FINAL . 2b) ☐ This action is replication is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters, pr				
Disposition of Claims					
4) Claim(s) 1,3-18,22 and 23 is/are pending in the 4a) Of the above claim(s) is/are withdrases 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1, 3-18 and 22-23 are subject	awn from consideration.	irement.			
Application Papers					
9) The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
	xammer. Note the attached Office	EACTION OF TOTAL			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) ☑ Notice of References Cited (PTO-892)	4) ☐ Interview Summary				
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail D 5) Notice of Informal I 6) Other:				

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DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1 and 3-6, drawn to a method of screening for small organic molecules that directly inhibit the interaction of glycosaminoglycans.

Group II, claim(s) 7-9 and 22-23, drawn to a method of treatment or prevention of disorders related to virus, bacteria or parasite attachment and entry with the administration of a compound that directly inhibits the interaction of glycosaminoglycans in a subject in need thereof.

Group III, claims 10-18, drawn to a pharmaceutical composition of formula la or lb.

2. The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The technical feature shared among the groups is compound that directly inhibits the interaction of glycosaminoglycans. This shared technical feature does not provide a contribution over the prior art, as evidenced by Copp et al. 1 Copp et al. 1 teaches of

¹ Copp et al. U.S. Patent No. 6201127.

compound that directly inhibits the interaction of glycosaminoglycans and has the general formula of formula I. In the absence of a contribution over the prior art, the inventions lack a shared special technical feature. Without a shared special technical feature, the inventions lack unity with one another.

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The special technical feature of the inventions listed as Group I-II is the utility and active method steps recited therein. The special technical feature differs from one another. In the absence of a shared special technical feature, the inventions listed as Groups I-II lack unity with one another.

Regarding Group II, in the instance Applicant elects this group, Applicant must further elect virus, bacteria or parasite. This is not a species election. Virus, bacteria and parasite do not share a common utility nor have significant structural similarities. Therefore, they lack unity with one another. If Applicant elects virus, Applicant must elect a virus recited in claims 8 or 23. The viruses recited in claims 8 or 23 do not share a common utility nor have significant structural similarities. Therefore, they lack unity with one another.

Regarding Group III, in the instance Applicant elects this group, Applicant must further elect between the formula la or lb. This is not a species election. Formulas la and lb do not have significant structural similarities with one another. In the absence of such, the formulas lack unity with one another.

3. The examiner has required restriction between product and process claims.
Where applicant elects claims directed to the product, and the product claims are
subsequently found allowable, withdrawn process claims that depend from or otherwise

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require all the limitations of the allowable product claim will be considered for rejoinder.

<u>All</u> claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

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In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

4. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

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The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to EMILY M. LE whose telephone number is (571)272-0903. The examiner can normally be reached on Monday - Friday, 8 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce R. Campell can be reached on (571) 272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/EMILY M LE/ Primary Examiner, Art Unit 1648

/E. M. L./